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United States Patent

Patent Number: 5572171
Date of Patent: 5 Nov 1996

Signal distribution system with plural lines segments in a path and having varying sensitivities

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Current U.S. Cl. 333/100.000; 333/136.000; 343/853.000
Field of Search 333/1; 333/100; 333/136; 343/853

Reference Cited

PATENT DOCUMENTS

Patent Number	Date	Class	Inventor
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US 4742355	May 1988	343/771.000	Wolfson et al.
US 4780723	Oct 1988	343/853.000	Mead
US 5278524	Nov 1994	333/001.000	Mullen

Art Unit - 252
Primary Examiner - Lee, Benny
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10 Claim(s), 11 Drawing Figure(s), 4 Drawing Page(s)

ABSTRACT

A signal distribution arrangement having a central signal source and a plurality of signal receivers located along a common path. Each of the signal receivers is coupled in communication with the signal source by a line arranged within the common path. To eliminate distortion of the signal due to outside interference sources, each of the lines is arranged within the common path so that it traverses the common path an odd number of times between the signal source and the receiver to which it is coupled, and traverses the common path an even number of times between the receiver to which it is coupled and the end of the common path. Within each segment of the common path, the relative propagation sensitivity of each line is controlled such that the product of the number of times the line traverses that segment multiplied the relative propagation sensitivity of the line is the same for all lines. The arrangement

according to the invention can also be applied to signal collection apparatus such as receiving [illegible]as.